

BROCHURE

SprinkFLEX[®]

COMMERCIAL FIRE SPRINKLER CONNECTIONS
Product Submittal



A PART OF





Series SFN Unbraided Flexible Hose Assemblies



Series SFB Braided Flexible Hose Assemblies



SprinkFLEX Stainless Steel Sprinkler Fittings connect the branch line to the sprinkler using a flexible stainless steel hose and reducer. The flexible stainless steel hose and fittings are intended for direct connection to the sprinkler and are particularly suited for use in suspended and hard ceiling applications. Each drop assembly comes with one stainless steel flexible hose, one branch line connection nipple, one sprinkler reducing nipple and bracket system.

SYSTEM OPTIONS

- Pre-assembled, ready to install, unbraided and braided flexible stainless steel hose lengths:
28" (700mm), 40" (1000mm), 48" (1200mm),
59" (1500mm), 71" (1800mm)
- 1/2" and 3/4" outlet fittings for connecting sprinkler
- Pre-assembled, ready to install mounting bracket available in 24" and 48" long
- Mounting bracket allows the sprinkler to be located anywhere within the ceiling with reference marks in the center for ease of installation without the need for measuring.
- Optional factory installed sprinkler head.

TECHNICAL DATA

- Maximum Working Pressure: 200 psi (1375 kPa)
- Maximum Ambient Temperature: 300° F (149°C)
- Connection to Branch Line: 1-inch NPT
- Minimum Bend Radius of Flexible Stainless Steel Hose:
3 inches (76.2 mm) per UL Listing
8 inches (203.2 mm) per FM Approval
The flexible stainless steel hose should not be bent within 2 1/2 inches (64 mm) of the connection nut at both ends.
- UL Maximum K-Factor of Sprinkler to be connected to Sprinkler Reducing Nipple:
1/2 inch outlets: 8.0
3/4 inch outlets: 11.2
- FM Maximum K-Factor of Sprinkler to be connected to Sprinkler Reducing Nipple:
1/2 inch outlets: 5.6
3/4 inch outlets: 8.0
- Listings and Approvals:
Unbraided models are UL Listed
Braided models are FM Approved and UL Listed





Limited Warranty

SprinkFLEX warrants that its products will be free from defects in materials and workmanship under normal conditions of use and service for a period of one year from date of sale. Our obligation under this warranty is limited to repairing or replacing any product that is returned to us with transportation charges prepaid within one year after the date of original sale and that our examination shows to our satisfaction to have been defective in materials or workmanship under normal conditions of use and service. The decision as to whether to repair or to replace any product shall be made by us, and any repair shall be made at our facility. Notwithstanding the foregoing, the following are specifically excluded from the coverage of this warranty:

- (a) the sprinkler head of any SprinkFLEX product, but SprinkFLEX hereby assigns to the original purchaser of any such product the right to enforce the warranty, if any, issued by the manufacturer of such sprinkler head;
- (b) defects resulting from ordinary wear and tear, of any SprinkFLEX Product;
- (c) products that have been altered in any manner by the buyer or by anyone other than SprinkFLEX;
- (d) products that have been subjected to misuse, abusive use, or damage by accident or casualty;
- (e) products that have been installed or used in a manner contrary to our specifications, instructions or recommendation;
- (f) products that have been installed or used in a manner that is not in compliance with all applicable requirements of any code, law, regulation or rule of any federal, state or local governmental or industry authority; and
- (g) products that have not been inspected and maintained in accordance with our specifications, instructions or recommendations, including, without limitation, our recommendations as to following the inspection and maintenance standards published by the National Fire Protection Association (NFPA); and
- (h) products that have been affected by Microbiologically Influenced Corrosion (MIC).

This warranty is not assignable and shall benefit only the original purchaser of a SprinkFLEX product. If any provision hereof or any portion of any provision shall be held invalid, the remainder of this Limited Warranty shall not be affected thereby, and all provisions of this Limited Warranty shall remain valid and in full force and effect to the fullest extent permitted by law.

THIS WARRANTY IS IN LIEU OF ALL IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, WARRANTIES OF MERCHANTABILITY AND WARRANTIES OF FITNESS FOR A PARTICULAR PURPOSE. NOTWITHSTANDING ANY PROVISION TO THE CONTRARY HEREIN OR ANY APPLICABLE LAW TO THE CONTRARY, IN NO EVENT SHALL SPRINKFLEX BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES UNDER ANY CIRCUMSTANCES WHATSOEVER, WHETHER ARISING FROM ANY BREACH OF THIS LIMITED WARRANTY OR OTHERWISE ARISING FROM OR IN CONNECTION WITH THE USE OR OPERATION OF, OR ANY DEFECT IN, ANY SPRINKFLEX PRODUCT, OR OTHERWISE. The risk of damages from any breach of warranty with respect to injury to any person will be born by the purchaser of SprinkFLEX.

FLEXIBLE HOSE - NON BRAIDED



NO.	DESCRIPTION	NO.	DESCRIPTION
1	Flexible Hose 7/8" Nominal Diameter	5	Nipple
2	Ring	6	Reducer 1/2" or 3/4"
3	Washer	7	Plastic Cap
4	Slip Nut		

FLEXIBLE HOSE - BRAIDED



NO.	DESCRIPTION	NO.	DESCRIPTION
1	Flexible Hose 7/8" Nominal Diameter	5	Nipple
2	Ring	6	Reducer 1/2" or 3/4"
3	Washer	7	Braid
4	Slip Nut	8	Plastic Cap

BRACKET ASSEMBLY



NO.	DESCRIPTION	NO.	DESCRIPTION
1	24" or 48" Support Bar	4	Hex Screw
2	Center Bracket Assembly	5	Wing Bolt
3	Clamp		

MATERIAL SPECIFICATIONS

Corrugated Flexible Hose: SS304	Support Bar: G90 Galvanized Steel
SEAL: EPDM	Clamp and Center Bracket Assembly: G90 Galvanized Steel
SLIP NUT AND NIPPLE: Zinc-Plated Carbon Steel	Hex Screw and Wing Bolts: Zinc-Plated Carbon Steel
Slip Nut and Nipple: Zinc-Plated Carbon Steel	Optional Tamper-Resistant Screw: Zinc-Plated Carbon Steel
BRAID AND BRAID RING: SS304	

FRICION LOSS DATA

UNBRAIDED HOSE UL LISTED

MODEL	INLET & OUTLET SIZE NPT INCH	LENGTH INCH (mm)	NUMBER OF 90 DEGREE BENDS	UL LISTED – UNBRAIDED HOSE MAXIMUM EQUIVALENT LENGTH OF SCH 40 1 INCH DIAMETER PIPE (C=120), FT
SFN28H	1 x 1/2	28" (700mm)	2	22
SFN28T	1 x 3/4	28" (700mm)	2	28
SFN40H	1 x 1/2	40" (1000mm)	3	39
SFN40T	1 x 3/4	40" (1000mm)	3	54
SFN48H	1 x 1/2	48" (1200mm)	3	56
SFN48T	1 x 3/4	48" (1200mm)	3	63
SFN59H	1 x 1/2	59" (1500mm)	3	59
SFN59T	1 x 3/4	59" (1500mm)	3	74
SFN71H	1 x 1/2	71" (1800mm)	3	67
SFN71T	1 x 3/4	71" (1800mm)	3	74

*Series SFN models are unbraided/Series SFB models are braided

*Unbraided hoses are UL Listed

*Braided hoses are FM Approved and UL Listed

BRAIDED HOSE FM APPROVED AND UL LISTED

MODEL	INLET & OUTLET SIZE NPT INCH	LENGTH INCH (mm)	UL NUMBER OF 90 DEGREE BENDS	UL-BRAIDED HOSE MAXIMUM EQUIVALENT LENGTH OF SCH 40 1 INCH DIAMETER PIPE (C=120), FT	FM NUMBER OF 90 DEGREE BENDS	FM-BRAIDED HOSE MAXIMUM EQUIVALENT LENGTH OF SCH 40 1 INCH DIAMETER PIPE (C=120), FT
SFB28H	1 x 1/2	28" (700mm)	2	22	1	46.4
SFB28T	1 x 3/4	28" (700mm)	2	28	1	39.1
SFB40H	1 x 1/2	40" (1000mm)	3	39	1	53.9
SFB40T	1 x 3/4	40" (1000mm)	3	54	1	45.3
SFB48H	1 x 1/2	48" (1200mm)	3	56	2	73.4
SFB48T	1 x 3/4	48" (1200mm)	3	63	2	64.3
SFB59H	1 x 1/2	59" (1500mm)	3	59	3	89.9
SFB59T	1 x 3/4	59" (1500mm)	3	74	3	86.5
SFB71H	1 x 1/2	71" (1800mm)	3	67	4	112.8
SFB71T	1 x 3/4	71" (1800mm)	3	74	4	104.9

BRAIDED HOSE WITH ELBOW - FM APPROVED

MODEL	INLET & OUTLET SIZE NPT INCH	LENGTH INCH (mm)	FM NUMBER OF 90 DEGREE BENDS	FM-BRAIDED HOSE MAXIMUM EQUIVALENT LENGTH OF SCH 40 1 INCH DIAMETER PIPE (C=120), FT
SFB28H – E	1 x 1/2	28" (700mm)	1	48.4
SFB28T – E	1 x 3/4	28" (700mm)	1	41.1
SFB40H – E	1 x 1/2	40" (1000mm)	1	55.9
SFB40T – E	1 x 3/4	40" (1000mm)	1	47.3
SFB48H – E	1 x 1/2	48" (1200mm)	2	75.4
SFB48T – E	1 x 3/4	48" (1200mm)	2	66.3
SFB59H – E	1 x 1/2	59" (1500mm)	3	91.9
SFB59T – E	1 x 3/4	59" (1500mm)	3	88.5
SFB71H – E	1 x 1/2	71" (1800mm)	4	114.8
SFB71T – E	1 x 3/4	71" (1800mm)	4	106.9

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